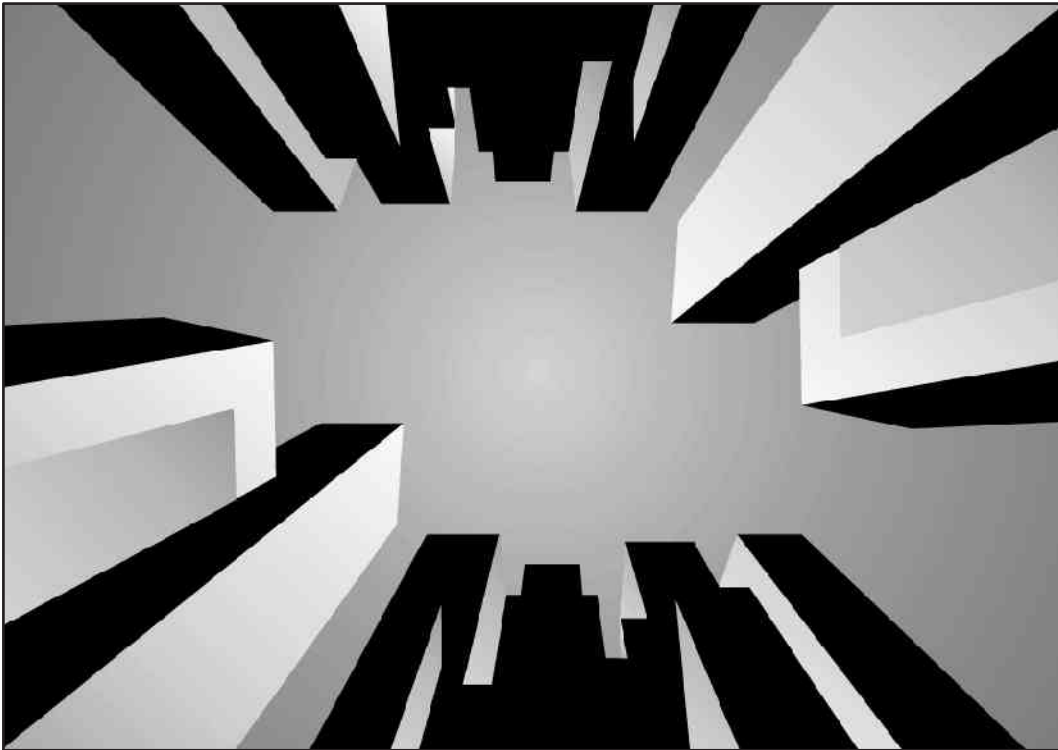


IESNA Recommended Procedure for Determining Interior and Exterior Lighting Power Allowances



Lighting Energy Management Series



The
LIGHTING
AUTHORITY®

**IESNA RECOMMENDED PROCEDURE
for
DETERMINING INTERIOR AND EXTERIOR LIGHTING
POWER ALLOWANCES**

The content of this Lighting
Energy Management publication
has been excerpted from
ANSI/ASHRAE/IESNA 90.1-04,
*Energy Standard for Buildings Except
Low-Rise Residential Buildings*

Prepared by:
Standard 90.1 Lighting Sub-Committee

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Prepared by the Lighting Sub-Committee of ASHRAE Standing Standard Project Committee 90.1

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Recommended Procedure for Determining Interior and Exterior Lighting Power Allowances

Foreword

(This foreword is not part of LEM-1 but is included for information purposes only. It is merely informative and does not contain requirements necessary for conformance to the standard. It has not been processed according to the ANSI requirements for a standard and may contain material that has not been subject to public review or a consensus process. Unresolved objectors on informative material are not offered the right to appeal at ASHRAE or ANSI.)

The original Standard 90 was published in 1975 and revised editions were published in 1980, 1989, and 1999 using the ANSI and ASHRAE periodic maintenance procedures. Based upon these procedures, the entire standard was publicly reviewed and published in its entirety each time. As technology and energy prices began changing more rapidly, however, the ASHRAE Board of Directors voted in 1999 to place the standard on continuous maintenance, permitting the standard to be updated several times each year through the publication of approved addenda to the standard. Starting with the 2001 edition, the standard is now published in its entirety in the fall of every third year. This schedule allows the standard to be submitted and proposed by the deadline for inclusion or reference in model building and energy codes. All approved addenda and errata will be included in the new edition every three years. This procedure allows users to have some certainty about when new editions will be published.

This 2004 edition of the standard has several new features and includes changes resulting from the continuous maintenance proposals from the public. The standard has been completely reformatted for ease of use and clarity. The Lighting Power Density values and the exterior lighting recommendations have been revised as well. The committee welcomes suggestions for improving the standard. Users of the standard are encouraged and invited to use the continuous maintenance procedure to suggest changes. A

form, Submittal of Proposed Change, is included in the back of the 90.1 standard. The committee will take formal action on every proposal received.

The project committee is continually considering changes and proposing addenda for public review. When addenda are approved, notices will be published on the ASHRAE and IESNA Web sites. Users are encouraged to sign up for the free ASHRAE and IESNA internet list server for this standard to receive notice of all public reviews and approved and published addenda and errata.

Changes from the previous 2001 edition of the standard are not marked in the margin, as was the practice with the 1999 edition, because of the extensive reformatting that has taken place in this 2004 edition.

This edition corrects all known typographical errors in the 2001 standard. It includes the content of 31 addenda that were processed by the committee and approved by the ASHRAE and IESNA Boards of Directors.

LEM-1 is concerned only with the lighting portion (Chapter 9) of Standard 90.1, which is excerpted in its entirety for the convenience of those whose interest is only in this aspect of the standard. As changes occur IESNA will update LEM-1.

A companion *90.1 User Manual* is also available from IESNA and ASHRAE, which gives guidance on the various provisions of the standard and provides application examples.

PURPOSE

The purpose of this standard is to provide minimum requirements for the energy-efficient design of buildings except low-rise residential buildings.

SCOPE

This standard provides:

- (a) minimum energy-efficient requirements for the design and construction of: